

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Shintech Incorporated

AUTHORIZING THE OPERATION OF

Shintech Freeport Plant  
Plastics Materials

LOCATED AT

Brazoria County, Texas

Latitude 28° 59' 44" Longitude 95° 21' 26"

Regulated Entity Number: RN100213198

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1361 Issuance Date: \_\_\_\_\_

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For the Commission

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## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
- E. The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart HHHHHHH and 30 TAC Chapter 113, Subchapter C, § 113.1555 for the following units (PRO-PLANT<sub>1</sub>, PRO-PLANT<sub>2</sub>, and PRO-PLANT<sub>3</sub>). No later than April 17, 2015, the permit holder shall submit a revision application to codify the requirements in the permit.
- F. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.
- G. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.302 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
  - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- H. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:

- (i) Title 30 TAC § 101.352 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
  - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.358 (relating to Emission Monitoring and Compliance Demonstration)
  - (vi) Title 30 TAC § 101.359 (relating to Reporting)
  - (vii) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
  - (viii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- I. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 101.372 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
  - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)

- C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
    - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
    - (ii) Title 30 TAC § 111.111(a)(1)(E)
    - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
    - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as

plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following



periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

- (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but

no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:
  - A. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)
  - B. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
- 6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

- A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
  - (i) Title 30 TAC § 115.222(7) (relating to Control Requirements)
  - (ii) Title 30 TAC § 115.222(3), as it applies to liquid gasoline leaks
  - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks
  - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)
- 7. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter F, Division 3, Degassing of Storage Tanks, Transport Vessels and Marine Vessels:
  - A. For degassing of stationary VOC storage tanks, the permit holder shall comply with the following requirements:
    - (i) Title 30 TAC § 115.541(a) - (c) (relating to Emission Specifications)
    - (ii) Title 30 TAC § 115.541(f) (relating to Emission Specifications), for floating roof storage tanks
    - (iii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.
    - (iv) Title 30 TAC § 115.542(b) - (d), (relating to Control Requirements)
    - (v) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)
    - (vi) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections
    - (vii) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring
    - (viii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices

- (ix) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)
- (x) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring
- (xi) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)
- (xii) Title 30 TAC § 115.545(1) - (7), (9) - (11) and (13) (relating to Approved Test Methods)
- (xiii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping
- (xiv) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)
- (xv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)
- (xvi) Title 30 TAC § 115.546(b) (relating to Recordkeeping and Notification Requirements), for notification
- (xvii) Title 30 TAC § 115.547(4) (relating to Exemptions)

8. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
- B. Title 40 CFR § 60.8 (relating to Performance Tests)
- C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
- D. Title 40 CFR § 60.12 (relating to Circumvention)
- E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
- F. Title 40 CFR § 60.14 (relating to Modification)
- G. Title 40 CFR § 60.15 (relating to Reconstruction)

- H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 9. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
  - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
  - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
  - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
  - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
  - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
  - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
  - H. Title 40 CFR § 61.15 (relating to Modification)
  - I. Title 40 CFR § 61.19 (relating to Circumvention)
- 10. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

### **Additional Monitoring Requirements**

- 11. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

## **New Source Review Authorization Requirements**

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
  - A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.
  - A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
  - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

## **Compliance Requirements**

15. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed

12 months and the certification must be submitted within 30 days after the end of the period being certified.

16. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
      - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
  - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).
  - C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.
17. Use of Emission Credits to comply with applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)
    - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
    - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122

- (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
- 18. Use of Discrete Emission Credits to comply with the applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
    - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
    - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
    - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

## **Risk Management Plan**

- 19. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.



## **Protection of Stratospheric Ozone**

20. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone.

- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

## **Permit Location**

21. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

## **Permit Shield (30 TAC § 122.148)**

22. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

### **Applicable Requirements Summary**

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
EUNLDG	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRP PVC	VINYL CHLORIDE PROCESS	PRO-PLANT <sub>1</sub> , PRO-PLANT <sub>2</sub> , PRO-PLANT <sub>3</sub>	61F-1	40 CFR Part 61, Subpart F	No changing attributes.
GRP-BIO	WASTEWATER UNITS	PL <sub>1</sub> BIO, PL <sub>2</sub> BIO, PL <sub>3</sub> BIO	R5140-1	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
GRP-BOILER A	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	UN <sub>3701A</sub> , UN <sub>3701B</sub> , UN <sub>3701C</sub> , UN <sub>752A</sub> , UN <sub>752B</sub> , UN <sub>752D</sub>	R7300-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-BOILER A	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	UN <sub>3701A</sub> , UN <sub>3701B</sub> , UN <sub>3701C</sub> , UN <sub>752A</sub> , UN <sub>752B</sub> , UN <sub>752D</sub>	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
GRP-BOILER A	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	UN <sub>3701A</sub> , UN <sub>3701B</sub> , UN <sub>3701C</sub> , UN <sub>752A</sub> , UN <sub>752B</sub> , UN <sub>752D</sub>	63DDDD-1	40 CFR Part 63, Subpart DDDD	No changing attributes.
GRP-BOILER B	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	UN <sub>2701A</sub> , UN <sub>2701B</sub> , UN <sub>2701C</sub>	R7300-1	30 TAC Chapter 117, Subchapter B	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-BOILERB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	UN2701A, UN2701B, UN2701C	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
GRP-BOILERB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	UN2701A, UN2701B, UN2701C	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRP-DRYERA	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	DR2401A, DR2401B, DR2401C, DR3401A, DR3401B, DR3401C, DR401D, DR401E, DR401F, DR401G	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-FUG	FUGITIVE EMISSION UNITS	P1FUG, P2FUG, P3FUG	R5352-ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
GRP-FUG	FUGITIVE EMISSION UNITS	P1FUG, P2FUG, P3FUG	61F-1	40 CFR Part 61, Subpart F	No changing attributes.
GRP-PLT1SILO	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	TK503A, TK503B, TK503C, TK503D, TK503E, TK510, TK551A, TK551B, TK551C, TK551D, TK551E, TK553A, TK553B, TK561A, TK561B, TK561C	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-PLT1TKS2	STORAGE TANKS/VESSELS	TK120, TK121, TK2109	R5112-5	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-PLT2SILO	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	TK2503A, TK2503B, TK2503C, TK2503D, TK2503E, TK2503F, TK2503G, TK2503H, TK2503I	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-PLT3SILO	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	TK3503A, TK3503B, TK3503C, TK3503D, TK3503E, TK3503F, TK3503G, TK3503H, TK3503I, TK3510	R5121-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-PLT3TKS1	STORAGE TANKS/VESSELS	TK3115, TK3116, TK3117, TK3118	R5112-5	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-PVC MACH	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	BM-1592A, BM- 1592B	R5121-5	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-PVC SILO	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	BS-1551A, BS- 1551B	R5121-5	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-PVC UNL	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	BU-1561A, BU- 1561B, BU-1562A, BU-1562B	R5121-5	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-STGTK1	STORAGE TANKS/VESSELS	TK2130	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-STGTK3	STORAGE TANKS/VESSELS	TK2131, TK2132	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-STGTK4	STORAGE TANKS/VESSELS	TK127, TK132, TK2133, TK2134	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP- VCMUNLDG	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	UNLDGA, UNLDGB, UNLDGC, UNLDGD, UNLDGE, UNLDGF, UNLDGG, UNLDGH, UNLDGJ, UNLDGK, UNLDGL, UNLDGM	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-VOCTK1	STORAGE TANKS/VESSELS	TK115, TK116, TK117, TK3133	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-WWSTRIP	FUGITIVE EMISSION UNITS	PL1WWSTRIP, PL2WWSTRIP, PL3WWSTRIP	R5352-1	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-WWSTRIP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	PL1WWSTRIP, PL2WWSTRIP, PL3WWSTRIP	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-WWSTRIP	FUGITIVE EMISSION UNITS	PL1WWSTRIP, PL2WWSTRIP, PL3WWSTRIP	61F-1	40 CFR Part 61, Subpart F	No changing attributes.
MUNLDG	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EUNLDG	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(3) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	All land-based VOC transfer to or from transport vessels shall be conducted in the manner specified for leak-free operations.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(iii)	None
GRP PVC	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.60(a)(3) § 61.64(a)(1) § 61.64(a)(2) § 61.64(a)(3) § 61.64(b) § 61.64(c) § 61.64(d) [G]§ 61.64(e)(1) § 61.64(e)(3) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.68(e)	This subpart applies to plants which produce one or more polymers containing any fraction of polymerized vinyl chloride.	§ 61.67(a) § 61.67(a)(1) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) [G]§ 61.67(g)(1) [G]§ 61.67(g)(3) [G]§ 61.67(g)(5) § 61.68(a) § 61.68(b) [G]§ 61.68(c) § 61.68(d) § 61.68(e) § 61.68(f) § 61.70(c) § 61.70(c)(2)(ii) § 61.70(c)(2)(iii)	§ 61.67(f) § 61.68(f) § 61.70(c)(2)(ii) § 61.70(c)(2)(v) [G]§ 61.70(c)(2)(vi) § 61.71(a) § 61.71(a)(3) § 61.71(a)(4)	§ 61.64(a)(3) § 61.67(e) § 61.69(a) § 61.69(b)(1) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(a)(2) § 61.70(b)(1) § 61.70(c)(1) § 61.70(c)(2) § 61.70(c)(2)(v) § 61.70(c)(3)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BIO	EU	R5140-1	VOC	30 TAC Chapter 115, Industrial Wastewater	[G]§ 115.142(3) § 115.142 [G]§ 115.148	In the Beaumont/Port Arthur area, and after December 31, 2002 in the Houston/Galveston area, each properly operated biotreatment unit shall meet the specified requirements. §§115.142(3)(A)-(B)	§ 115.144(4) § 115.144(4)(A) § 115.144(4)(B) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	§ 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERA	EU	R7300-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(B) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(1) § 117.335(g) § 117.340(a) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERA	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERA	EU	6oDc-1	SO <sub>2</sub>	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BOILERA	EU	6oDc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BOILERA	EU	6oDc-1	PM (OPACITY)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERA	EU	63DDDD D-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERB	EU	R7300-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(B) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(1) § 117.335(g) § 117.340(a) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERB	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERB	EU	6oDc-1	SO <sub>2</sub>	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BOILERB	EU	6oDc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BOILERB	EU	6oDc-1	PM (OPACITY)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BOILERB	EU	63DDDD D-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
GRP-DRYERA	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.353(a) § 115.353(b) § 115.910	For all affected persons in the Beaumont-Port Arthur, Dallas-Fort Worth, El Paso, and Houston-Galveston areas, as defined in §115.10, any alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division may be approved by the executive director in accordance with §115.910 if emission reductions are demonstrated to be substantially equivalent.	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(a) [G]§ 61.242-10 [G]§ 61.242-4 § 61.65(b)(4) [G]§ 61.65(b)(6) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Except for an emergency relief discharge, and as in §61.65(d), there is to be no discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service. Report as specified.	[G]§ 61.242-4 [G]§ 61.245(c) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c)	§ 61.65(a)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	[G]§ 61.65(b)(1) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3) § 61.68(e)	Vinyl chloride emissions from loading and unloading lines which are opened to the atmosphere after each loading or unloading operation are to be minimized specified. §61.65(b)(1)(i)-(ii)	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) [G]§ 61.67(g)(1) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii) § 61.68(a) § 61.68(b) [G]§ 61.68(c) § 61.68(d) § 61.68(e) § 61.68(f) § 61.70(c)	§ 61.65(c) § 61.67(f) § 61.68(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2) § 61.71(a)(3)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.68(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(i) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install sealless pumps, pumps with double mechanical seals or equivalent per §61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR 61 Subpart V.	[G]§ 61.242-2 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(iii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-3 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install compressors with double mechanical seals, or equivalent as in §61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm or comply with 40 CFR 61 Subpart V.	[G]§ 61.242-3 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(3)(v) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Install agitators with double mechanical seals, or equivalent as provided in § 61.66. If double mechanical seals are used, comply as specified so emissions are less than or equal to 10 ppm.	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(7) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-5 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Unused portions of samples with 10 percent or more vinyl chloride must be returned to process or sent to control device so emissions are no greater than 10 ppm (average for 3-hour period), or comply per 40 CFR 61 Subpart V.	[G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.243-2 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves shall be implemented consistent with subpart V of this part as specified.	[G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(f) [G]§ 61.246(g) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) § 61.247(d) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(ii) [G]§ 61.242-7(d) [G]§ 61.242-7(e) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(b)(8)(ii)(C) § 61.65(b)(8)(ii)(E) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	For each process unit subject to this subpart, a formal leak detection and repair program for valves may be implemented consistent with the requirements of a plan approved under this subpart.	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.65(b)(8)(ii)(A) § 61.65(b)(8)(ii)(B) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	§ 61.65(c) § 61.67(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.65(b)(8)(ii)(D) § 61.67(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	§ 61.65(b)(8)(iii) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-6 § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3)	Open-ended valves and lines not exempted shall comply with the requirements of §61.242-6 of subpart V.	[G]§ 61.245(d) § 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) § 61.65(c) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1)
GRP-PLT1SILO	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-PLT1SILO	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-PLT1TKS2	EU	R5112-5	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRP-PLT2SILO	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-PLT2SILO	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-PLT3SILO	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-PLT3SILO	EP	R5121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-PLT3TKS1	EU	R5112-5	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRP-PVC MACH	EP	R5121-5	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-PVC SILO	EP	R5121-5	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-PVC UNL	EP	R5121-5	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-STGTK1	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRP-STGTK3	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-STGTK4	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None
GRP-VCMUNLDG	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-VOCTK1	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRP-WWSTRIP	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRP-WWSTRIP	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-WWSTRIP	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-WWSTRIP	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-WWSTRIP	EU	61F-1	Vinyl Chloride	40 CFR Part 61, Subpart F	[G]§ 61.65(b)(9) § 61.65(b)(5) [G]§ 61.65(b)(6) § 61.65(b)(8) § 61.65(b)(8)(i) § 61.65(c) § 61.67(h)(1) § 61.67(h)(3) § 61.68(e)	In process wastewater. Vinyl chloride emissions to the atmosphere from in process wastewater are to be reduced as follows. §61.65(b)(9)(i)-(ii)	§ 61.65(b)(8)(i)(D)(1) § 61.65(b)(8)(i)(D)(2) § 61.67(a) § 61.67(b) § 61.67(c) § 61.67(e) § 61.67(f) § 61.67(g) [G]§ 61.67(g)(1) § 61.67(g)(2) § 61.67(h)(1) § 61.67(h)(2)(i) § 61.67(h)(2)(ii) § 61.68(a) § 61.68(b) [G]§ 61.68(c) § 61.68(d) § 61.68(e) § 61.68(f) § 61.70(c)	§ 61.65(c) § 61.67(f) § 61.68(f) § 61.71(a) § 61.71(a)(1) § 61.71(a)(2) § 61.71(a)(3)	§ 61.65(b)(8)(i) § 61.65(b)(8)(i)(A) § 61.65(b)(8)(i)(B) § 61.65(b)(8)(i)(C) § 61.65(b)(8)(i)(D) § 61.67(e) § 61.68(e) § 61.69(a) [G]§ 61.69(c) § 61.70(a)(1) § 61.70(c)(1)
MUNLDG	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(3) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	All land-based VOC transfer to or from transport vessels shall be conducted in the manner specified for leak-free operations.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(iii)	None

**Additional Monitoring Requirements**

**Periodic Monitoring Summary..... 61**

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-STGTK4	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-3
Pollutant: VOC	Main Standard: § 115.112(e)(1)
<b>Monitoring Information</b>	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: It shall be considered a deviation if the repairs are not completed prior to refilling the storage vessel.	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-STGTK4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-3
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Record of Tank Construction Specifications	
Minimum Frequency: n/a	
Averaging Period: n/a	
Deviation Limit: It shall be considered a deviation if a record of tank construction specifications is not kept.	
Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.	



**Permit Shield**

**Permit Shield ..... 64**

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-BOILERA	UN3701A, UN3701B, UN3701C, UN752A, UN752B, UN752D	40 CFR Part 60, Subpart D	Heat input rate is less than 250 MMBtu/hr.
GRP-BOILERA	UN3701A, UN3701B, UN3701C, UN752A, UN752B, UN752D	40 CFR Part 60, Subpart Db	Heat input rate is less than 100 MMBtu/hr.
GRP-BOILERB	UN2701A, UN2701B, UN2701C	40 CFR Part 60, Subpart D	Heat input rate is less than 250 MMBtu/hr.
GRP-BOILERB	UN2701A, UN2701B, UN2701C	40 CFR Part 60, Subpart Db	Heat input rate is less than 100 MMBtu/hr.
GRP-INCINA	LV-5, UN2703A, UN2703B, UN3703A, UN3703B	30 TAC Chapter 111, Incineration	Does not burn domestic, municipal, commercial, or industrial solid waste.
GRP-INCINA	LV-5, UN2703A, UN2703B, UN3703A, UN3703B	30 TAC Chapter 117, Subchapter B	Rated capacity is less than 40 MMBtu/hr.
GRP-INCINA	LV-5, UN2703A, UN2703B, UN3703A, UN3703B	40 CFR Part 60, Subpart E	Incinerator is less than 45 metric tons per day charging rate.
GRP-PLT1TKS1	TK107, TK108, TK109, TK110, TK111, TK2108, TK2113, TK2114, TK353	30 TAC Chapter 115, Storage of VOCs	Storage capacity is less than 1,000 gallons.
GRP-PLT1TKS1	TK107, TK108, TK109, TK110, TK111, TK2108, TK2113, TK2114, TK353	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-PLT1TKS2	TK120, TK121, TK2109	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-PLT1TKS3	TK122	30 TAC Chapter 115, Storage of VOCs	Storage tanks store brine which is not a VOC.
GRP-PLT1TKS3	TK122	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-PLT2TKS1	TK2119, TK2120, TK2121, TK2122, TK2125, TK2126	30 TAC Chapter 115, Storage of VOCs	Storage capacity is less than 1,000 gallons.
GRP-PLT2TKS1	TK2119, TK2120, TK2121, TK2122, TK2125, TK2126	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-PLT3TKS1	TK3115, TK3116, TK3117, TK3118	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-PLT3TKS2	TK3119, TK3120, TK3121, TK3122, TK3124	30 TAC Chapter 115, Storage of VOCs	Storage capacity is less than 1,000 gallons.
GRP-PLT3TKS2	TK3119, TK3120, TK3121, TK3122, TK3124	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-SPHERE	TK2901A, TK2901B, TK2901C, TK2901D, TK3901A, TK3901B	40 CFR Part 60, Subpart Kb	Spheres are pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-SPHERE	TK2901A, TK2901B, TK2901C, TK2901D, TK3901A, TK3901B	40 CFR Part 63, Subpart OO	Not subject to another subpart within 40 CFR Part 60, 61, or 63 that references 40 CFR Part 63 OO for air emission control.
GRP-STGTK1	TK2130	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-STGTK2	TK123, TK124, TK2115A, TK2115B, TK3132, TK3134, TK795, TK796, TK797, TK798	30 TAC Chapter 115, Storage of VOCs	Storage vessels store something other than a VOC.
GRP-STGTK2	TK123, TK124, TK2115A, TK2115B, TK3132, TK3134, TK795, TK796, TK797, TK798	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-STGTK2	TK123, TK124, TK2115A, TK2115B, TK3132, TK3134, TK795, TK796, TK797, TK798	40 CFR Part 63, Subpart OO	Not subject to another subpart within 40 CFR Part 60, 61, or 63 that references 40 CFR Part 63 OO for air emission control.
GRP-STGTK3	TK2131, TK2132	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-STGTK3	TK2131, TK2132	40 CFR Part 63, Subpart OO	Not subject to another subpart within 40 CFR Part 60, 61, or 63 that references 40 CFR Part 63 OO for air emission control.

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-STGTK4	TK127, TK132, TK2133, TK2134	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-STGTK4	TK127, TK132, TK2133, TK2134	40 CFR Part 63, Subpart OO	Not subject to another subpart within 40 CFR Part 60, 61, or 63 that references 40 CFR Part 63 OO for air emission control.
GRP-VOCTK1	TK115, TK116, TK117, TK3133	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10,500 gallons.
GRP-VOCTK1	TK115, TK116, TK117, TK3133	40 CFR Part 63, Subpart OO	Not subject to another subpart within 40 CFR Part 60, 61, or 63 that references 40 CFR Part 63 OO for air emission control.

**New Source Review Authorization References**

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**New Source Review Authorization References by Emission Unit..... 70**

## New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX285M5	Issuance Date: 06/16/2014
<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 112757	Issuance Date: 10/01/2013
Authorization No.: 9347	Issuance Date: 06/16/2014
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.393	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 03/14/1997
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 03/14/1997

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
BM-1592A	BAG A - PVC BAGGING TRAIN A	106.393/09/04/2000
BM-1592B	BAG B - PVC BAGGING TRAIN B	106.393/09/04/2000
BS-1551A	BAG A - PVC SILO TRAIN A	106.393/09/04/2000
BS-1551B	BAG B - PVC SILO TRAIN B	106.393/09/04/2000
BU-1561A	BAG A - PVC UNLOADING TRAIN A	106.393/09/04/2000
BU-1561B	BAG B - PVC UNLOADING TRAIN B	106.393/09/04/2000
BU-1562A	BAG A - PVC UNLOADING TRAIN A	106.393/09/04/2000
BU-1562B	BAG B - PVC UNLOADING TRAIN B	106.393/09/04/2000
DR2401A	PLANT 2 DRYER	9347, PSDTX285M5
DR2401B	PLANT 2 DRYER	9347, PSDTX285M5
DR2401C	PLANT 2 DRYER	9347, PSDTX285M5
DR3401A	PLANT 3 DRYER	9347, PSDTX285M5
DR3401B	PLANT 3 DRYER	9347, PSDTX285M5
DR3401C	PLANT 3 DRYER	9347, PSDTX285M5
DR401D	PLANT 1 DRYER	9347, PSDTX285M5
DR401E	PLANT 1 DRYER	9347, PSDTX285M5
DR401F	PLANT 1 DRYER	9347, PSDTX285M5
DR401G	PLANT 1 DRYER	9347, PSDTX285M5



### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
EUNLDG	ETHANOL UNLOADING	9347, PSDTX285M5
LV-5	PLANT 1 INCINERATOR	9347, PSDTX285M5
MUNLDG	METHANOL UNLOADING	9347, PSDTX285M5
P1FUG	PLANT 1 FUGITIVES	9347, PSDTX285M5
P2FUG	PLANT 2 FUGITIVES	9347, PSDTX285M5
P3FUG	PLANT 3 FUGITIVES	9347, PSDTX285M5
PL1BIO	PLANT 1 BIO TREATMENT	9347, PSDTX285M5
PL1WWSTRIP	PLANT 1 WASTEWATER STRIPPER	9347, PSDTX285M5
PL2BIO	PLANT 2 BIO TREATMENT	9347, PSDTX285M5
PL2WWSTRIP	PLANT 2 WASTEWATER STRIPPER	9347, PSDTX285M5
PL3BIO	PLANT 3 BIO TREATMENT	9347, PSDTX285M5
PL3WWSTRIP	PLANT 3 WASTEWATER STRIPPER	9347, PSDTX285M5
PRO-PLANT1	PLANT 1 VCM PROCESS	9347, PSDTX285M5
PRO-PLANT2	PLANT 2 VCM PROCESS	9347, PSDTX285M5
PRO-PLANT3	PLANT 3 VCM PROCESS	9347, PSDTX285M5
TK107	PLANT 1 UM DISSOLVING TANK	9347, PSDTX285M5
TK108	PLANT 1 UM MEASURING TANK	9347, PSDTX285M5
TK109	PLANT 1 CGF DISSOLVING TANK	9347, PSDTX285M5

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TK110	PLANT 1 UJ MAKE-UP TANK	9347, PSDTX285M5
TK111	PLANT 1 UJ MAKE-UP TANK	9347, PSDTX285M5
TK115	PLANT 1 VOC STORAGE TANK (ETOH)	9347, PSDTX285M5
TK116	PLANT 1 VOC STORAGE TANK (ETOH)	9347, PSDTX285M5
TK117	PLANT 1 VOC STORAGE TANK (ETOH)	9347, PSDTX285M5
TK120	PLANT 1 LH TANK	9347, PSDTX285M5
TK121	PLANT 1 LH TANK	9347, PSDTX285M5
TK122	PLANT 1 BRINE TANK	106.478/09/04/2000
TK123	PLANT 1 STORAGE TANK	9347, PSDTX285M5
TK124	PLANT 1 STORAGE TANK	9347, PSDTX285M5
TK127	PLANT 1 UG2 TANK	106.478/03/14/1997
TK132	PLANT 1 IF TANK	106.478/03/14/1997
TK2108	PLANT 2 IF M/U TANK	106.478/09/04/2000
TK2109	PLANT 2 IF MEASURING TANK	106.478/09/04/2000
TK2113	PLANT 2 OZ2 M/U TANK	106.478/09/04/2000
TK2114	PLANT 2 OZ2 MEASURING TANK	106.478/09/04/2000
TK2115A	PLANT 2 STORAGE TANK	9347, PSDTX285M5
TK2115B	PLANT 2 STORAGE TANK	9347, PSDTX285M5

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TK2119	PLANT 2 UG MAKE-UP TANK	9347, PSDTX285M5
TK2120	PLANT 2 UG MEASURING TANK	9347, PSDTX285M5
TK2121	PLANT 2 CG MAKE-UP TANK	9347, PSDTX285M5
TK2122	PLANT 2 CG MEASURING TANK	9347, PSDTX285M5
TK2125	PLANT 2 UH MIX-UP TANK	9347, PSDTX285M5
TK2126	PLANT 2 UH MEASURING TANK	9347, PSDTX285M5
TK2130	PLANT 2 STORAGE TANK (LJ)	9347, PSDTX285M5
TK2131	PLANT 2 STORAGE TANK (CGF)	9347, PSDTX285M5
TK2132	PLANT 2 STORAGE TANK (CGF)	9347, PSDTX285M5
TK2133	PLANT 2 VOC STORAGE TANK (ETOH)	9347, PSDTX285M5
TK2134	PLANT 2 VOC STORAGE TANK (ETOH)	106.478/03/14/1997
TK2503A	PLANT 2 SILO	9347, PSDTX285M5
TK2503B	PLANT 2 SILO	9347, PSDTX285M5
TK2503C	PLANT 2 SILO	9347, PSDTX285M5
TK2503D	PLANT 2 SILO	9347, PSDTX285M5
TK2503E	PLANT 2 SILO	9347, PSDTX285M5
TK2503F	PLANT 2 SILO	9347, PSDTX285M5
TK2503G	PLANT 2 SILO	9347, PSDTX285M5

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TK2503H	PLANT 2 SILO	9347, PSDTX285M5
TK2503I	PLANT 2 SILO	9347, PSDTX285M5
TK2901A	PLANT 2 VCM PRESSURE SPHERE	9347, PSDTX285M5
TK2901B	PLANT 2 VCM PRESSURE SPHERE	9347, PSDTX285M5
TK2901C	PLANT 2 VCM PRESSURE SPHERE	9347, PSDTX285M5
TK2901D	PLANT 2 VCM PRESSURE SPHERE	9347, PSDTX285M5
TK3115	PLANT 3 LB MAKE-UP TANK	9347, PSDTX285M5
TK3116	PLANT 3 LD MAKE-UP TANK	9347, PSDTX285M5
TK3117	PLANT 3 LH MAKE-UP TANK	9347, PSDTX285M5
TK3118	PLANT 3 LC MAKE-UP TANK	9347, PSDTX285M5
TK3119	PLANT 3 UH MAKE-UP TANK	9347, PSDTX285M5
TK3120	PLANT 3 UH MEASURING TANK	9347, PSDTX285M5
TK3121	PLANT 3 CG MAKE-UP TANK	9347, PSDTX285M5
TK3122	PLANT 3 CG MEASURING TANK	9347, PSDTX285M5
TK3124	PLANT 3 UG MAKE-UP TANK	9347, PSDTX285M5
TK3132	PLANT 3 STORAGE TANK	9347, PSDTX285M5
TK3133	PLANT 3 VOC STORAGE TANK (ETOH)	9347, PSDTX285M5
TK3134	PLANT 3 STORAGE TANK	9347, PSDTX285M5

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TK3503A	PLANT 3 SILO	9347, PSDTX285M5
TK3503B	PLANT 3 SILO	9347, PSDTX285M5
TK3503C	PLANT 3 SILO	9347, PSDTX285M5
TK3503D	PLANT 3 SILO	9347, PSDTX285M5
TK3503E	PLANT 3 SILO	9347, PSDTX285M5
TK3503F	PLANT 3 SILO	9347, PSDTX285M5
TK3503G	PLANT 3 SILO	9347, PSDTX285M5
TK3503H	PLANT 3 SILO	9347, PSDTX285M5
TK3503I	PLANT 3 SILO	9347, PSDTX285M5
TK3510	PLANT 3 SILO	9347, PSDTX285M5
TK353	PLANT 1 STOPPER TANK	9347, PSDTX285M5
TK3901A	PLANT 3 VCM PRESSURE SPHERE	9347, PSDTX285M5
TK3901B	PLANT 3 VCM PRESSURE SPHERE	9347, PSDTX285M5
TK503A	PLANT 1 SILO	9347, PSDTX285M5
TK503B	PLANT 1 SILO	9347, PSDTX285M5
TK503C	PLANT 1 SILO	9347, PSDTX285M5
TK503D	PLANT 1 SILO	9347, PSDTX285M5
TK503E	PLANT 1 SILO	9347, PSDTX285M5

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TK510	PLANT 1 SILO	9347, PSDTX285M5
TK551A	PLANT 1 SILO	9347, PSDTX285M5
TK551B	PLANT 1 SILO	9347, PSDTX285M5
TK551C	PLANT 1 SILO	9347, PSDTX285M5
TK551D	PLANT 1 SILO	9347, PSDTX285M5
TK551E	PLANT 1 SILO	9347, PSDTX285M5
TK553A	PLANT 1 SILO	9347, PSDTX285M5
TK553B	PLANT 1 SILO	9347, PSDTX285M5
TK561A	PLANT 1 SILO	9347, PSDTX285M5
TK561B	PLANT 1 SILO	9347, PSDTX285M5
TK561C	PLANT 1 SILO	9347, PSDTX285M5
TK795	PLANT 1 STORAGE TANK	9347, PSDTX285M5
TK796	PLANT 1 STORAGE TANK	9347, PSDTX285M5
TK797	PLANT 1 STORAGE TANK	9347, PSDTX285M5
TK798	PLANT 1 STORAGE TANK	9347, PSDTX285M5
UN2701A	PLANT 2 BOILER	9347, PSDTX285M5
UN2701B	PLANT 2 BOILER	9347, PSDTX285M5
UN2701C	PLANT 2 BOILER	9347, PSDTX285M5

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
UN2703A	PLANT 2 INCINERATOR	9347, PSDTX285M5
UN2703B	PLANT 2 INCINERATOR	9347, PSDTX285M5
UN3701A	PLANT 3 BOILER	9347, PSDTX285M5
UN3701B	PLANT 3 BOILER	9347, PSDTX285M5
UN3701C	PLANT 3 BOILER	9347, PSDTX285M5
UN3703A	PLANT 3 INCINERATOR	9347, PSDTX285M5
UN3703B	PLANT 3 INCINERATOR	9347, PSDTX285M5
UN752A	PLANT 1 BOILER	9347, PSDTX285M5
UN752B	PLANT 1 BOILER	9347, PSDTX285M5
UN752D	PLANT 1 BOILER	9347, PSDTX285M5
UNLDGA	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGB	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGC	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGD	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGE	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGF	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGG	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGH	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5

### **New Source Review Authorization References by Emissions Unit**

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Unit/Group/Process ID No.</b>	<b>Emission Unit Name/Description</b>	<b>New Source Review Authorization</b>
UNLDGJ	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGK	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGL	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5
UNLDGM	PLANT 2 VCM UNLOADING SPOT	9347, PSDTX285M5



**Appendix A**

**Acronym List .....80**

## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM .....	actual cubic feet per minute
AMOC .....	alternate means of control
ARP .....	Acid Rain Program
ASTM .....	American Society of Testing and Materials
B/PA .....	Beaumont/Port Arthur (nonattainment area)
CAM .....	Compliance Assurance Monitoring
CD .....	control device
COMS .....	continuous opacity monitoring system
CVS .....	closed-vent system
D/FW .....	Dallas/Fort Worth (nonattainment area)
DR .....	Designated Representative
ELP .....	El Paso (nonattainment area)
EP .....	emission point
EPA .....	U.S. Environmental Protection Agency
EU .....	emission unit
FCAA Amendments .....	Federal Clean Air Act Amendments
FOP .....	federal operating permit
GF .....	grandfathered
gr/100 scf .....	grains per 100 standard cubic feet
HAP .....	hazardous air pollutant
H/G/B .....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S .....	hydrogen sulfide
ID No. ....	identification number
lb/hr .....	pound(s) per hour
MMBtu/hr .....	Million British thermal units per hour
MRRT .....	monitoring, recordkeeping, reporting, and testing
NA .....	nonattainment
N/A .....	not applicable
NADB .....	National Allowance Data Base
NO <sub>x</sub> .....	nitrogen oxides
NSPS .....	New Source Performance Standard (40 CFR Part 60)
NSR .....	New Source Review
ORIS .....	Office of Regulatory Information Systems
Pb .....	lead
PBR .....	Permit By Rule
PM .....	particulate matter
ppmv .....	parts per million by volume
PSD .....	prevention of significant deterioration
RO .....	Responsible Official
SO <sub>2</sub> .....	sulfur dioxide
TCEQ .....	Texas Commission on Environmental Quality
TSP .....	total suspended particulate
TVP .....	true vapor pressure
U.S.C. ....	United States Code
VOC .....	volatile organic compound

**Appendix B**

**Major NSR Summary Table ..... 82**

### Major NSR Summary Table

Permit Number: NSR 9347; PSDTX285M5				Issuance Date: 6-16-14			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
DR401D	PVC Dryer	PM/PM10/PM 2.5	1.80		7,24	6,29,33	3,5
		NVOC	8.50				
		VCM	5.10				
DR401E	PVC Dryer	PM/PM10/PM 2.5	1.80		7,24	6,29,33	3,5
		NVOC	8.50				
		VCM	5.10				
DR401F	PVC Dryer	PM/PM10/PM 2.5	1.80		7,24	6,29,33	3,5
		NVOC	8.50				
		VCM	5.10				
DR401G	PVC Dryer	PM/PM10/PM 2.5	1.80		7,24	6,29,33	3,5
		NVOC	8.50				
		VCM	5.10				
LV-5	VCM Incinerator	CO	0.10		7,8,16,18,24,26,27	6,8,9,16,18,26,27	3,5
		HCl	0.20				
		CL2	0.02				
		NOX	2.10				
		VCM	0.10				

Permit Number: NSR 9347; PSDTX285M5				Issuance Date: 6-16-14			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM/PM10/PM 2.5	0.20				
		SO2	0.01				
		VOC	0.03				
TK116	VOC Tank	VOC	0.34		6,30	6,29,30	
TK117	VOC Tank	VOC	0.34		6,30	6,29,30	
TK124	VOC Tank	VOC	1.84		6,30	6,29,30	
TK115	VOC Tank	VOC	0.24		6,30	6,29,30	
TK123	VOC Tank	VOC	0.85		6,30	6,29,30	
TK502A, TK502B, TK502C, TK502D, TK503A, TK503C, TK503D, TK503E, TK551A, TK551E	Plant 1 Silos	PM/PM10/PM 2.5	3.58		6,7	6	
		VMC	2.80				
TK503B	PVC Loading Silo	PM/PM10/PM 2.5	0.35		6,7	6	
		VCM	0.30				
TK510	PVC Storage Silo	PM/PM10/PM 2.5	0.18		6,7	6	
		VCM	0.01				

Permit Number: NSR 9347; PSDTX285M5				Issuance Date: 6-16-14			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
TK561A	PVC Storage Silo	PM/PM10/PM 2.5	0.19		6,7	6	
		VCM	0.60				
TK561B	PVC Storage Silo	PM/PM10/PM 2.5	0.19		6,7	6	
		VCM	0.60		6,7	6	
TK561C	PVC Storage Silo	PM/PM10/PM 2.5	0.25		6,7	6	
		VCM	0.60				
UN752A	Boiler	CO	13.14		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		NOX	4.38				
		PM/PM10/PM 2.5	0.61				
		SO2	1.04				
		VOC	0.39				
UN752B	Boiler	CO	13.14		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		NOX	4.38				
		PM/PM10/PM 2.5	0.61				
		SO2	1.04				
		VOC	0.39				
UN752D	Boiler	CO	1.08		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		NOX	0.90				
		PM/PM10/PM 2.5	0.50				
		SO2	0.85				
		VOC	0.32				

Permit Number: NSR 9347; PSDTX285M5					Issuance Date: 6-16-14		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FUG200	200 Area Fugitives (5)	PM/PM10/PM 2.5	0.01		11,12,27,3,5	11,12,27,3,5	3,5
		VCM	0.58				
		NVOC	0.25				
FUG300	300 Area Fugitives (5)	VCM	0.64		11,12,27,3,5	11,12,27,3,5	3,5
PL1WWSTRIP	Wastewater Stripper	VCM	0.14		21,22	22	3,5
PL1BIO	Biological Treatment	VCM	0.15		22	22	3,5
<b>Plant 2</b>							
DR-2401A	PVC Dryer	PM/PM10/PM 2.5	1.76		7	6,29,33	3,5
		NVOC	8.50				
		VCM	6.80				
DR-2401B	PVC Dryer	PM/PM10/PM 2.5	1.76		7	6,29,33	3,5
		NVOC	8.50				
		VCM	6.80				
DR-2401C	PVC Dryer	PM/PM10/PM 2.5	1.80		7	6,29,33	3,5
		NVOC	10.00				
		VCM	8.00				

Permit Number: NSR 9347; PSDTX285M5				Issuance Date: 6-16-14			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
TK551B, TK551C, TK551D, TK553A, TK553B, TK2503A, TK2503B, TK2503C, TK2503D, TK2503E, TK2503F, TK2503G, TK2503H, TK2503I	Plant 2 Silos	PM/PM10/PM 2.5	2.95		6,7	6	
		VCM	2.10				
TK2901A	VCM Storage Sphere	VCM	0.10			29	
TK2901B	VCM Storage Sphere	VCM	0.10			29	
TK2901C	VCM Storage Sphere	VCM	0.10			29	
TK2901D	VCM Storage Sphere	VCM	0.10			29	
UNLDGA	VCM Unloading	VCM	0.02			29	
UNLDGB	VCM Unloading	VCM	0.02			29	



Permit Number: NSR 9347; PSDTX285M5				Issuance Date: 6-16-14			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
UNLDGC	VCM Unloading	VCM	0.02			29	
UNLDGD	VCM Unloading	VCM	0.02			29	
UNLDGE	VCM Unloading	VCM	0.02			29	
UNLDGF	VCM Unloading	VCM	0.02			29	
UNLDGG	VCM Unloading	VCM	0.02			29	
UNLDGH	VCM Unloading	VCM	0.02			29	
UNLDGJ	VCM Unloading	VCM	0.02			29	
UNLDGK	VCM Unloading	VCM	0.02			29	
UNLDGL	VCM Unloading	VCM	0.02			29	
UNLDGM	VCM Unloading	VCM	0.02			29	
UNLDGJFUG	VCM Unloading (5)	VCM	0.17		11,12,27,3,5	11,12,27,3,5	3,5
UNLDGKFUG	VCM Unloading (5)	VCM	0.17		11,12,27,3,5	11,12,27,3,5	3,5
UNLDGLFUG	VCM Unloading (5)	VCM	0.17		11,12,27,3,5	11,12,27,3,5	3,5
UNLDGMFUG	VCM Unloading (5)	VCM	0.17		11,12,27,3,5	11,12,27,3,5	3,5

Permit Number: NSR 9347; PSDTX285M5				Issuance Date: 6-16-14			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
UNLDGKFUG	VCM Unloading (5)	VCM	0.17		11,12,27,3,5	11,12,27,3,5	3,5
UNLDGLFUG	VCM Unloading (5)	VCM	0.17		11,12,27,3,5	11,12,27,3,5	3,5
UNLDGMFUG	VCM Unloading (5)	VCM	0.17		11,12,27,3,5	11,12,27,3,5	3,5
UN2701A	Boiler	PM/PM10/PM 2.5	0.63		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		VOC	0.41				
		NOX	4.56				
		SO2	1.09				
		CO	8.36				
UN2701B	Boiler	PM/PM10/PM 2.5	0.63		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		VOC	0.41				
		NOX	4.56				
		SO2	1.09				
		CO	8.36				
UN2701C	Boiler	PM/PM10/PM 2.5	0.63		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		VOC	0.41				
		NOX	4.56				
		SO2	1.09				
		CO	8.36				

Permit Number: NSR 9347; PSDTX285M5					Issuance Date: 6-16-14		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
UN2703A	VCM Incinerator	PM/PM10/PM 2.5	0.20		7,8,16,18,26,27	6,8,9,16,18,26,27	3,5
		NOX	2.10				
		SO2	0.01				
		CO	0.16				
		VCM	0.60				
		HCl	0.20				
		CL2	0.02				
		VOC	0.03				
UN2703B	VCM Incinerator	PM/PM10/PM 2.5	0.20		7,8,16,18,26,27	6,8,9,16,18,26,27	3,5
		NOX	2.10				
		SO2	0.01				
		CO	0.16				
		VCM	0.60				
		HCl	0.20				
		CL2	0.02				
		VOC	0.03				
FUG2200	200 Area Fugitives (5)	PM/PM10/PM 2.5	0.01		11,12,27,3,5	11,12,27,3,5	3,5
		VCM	0.69				
		NVVOG	0.16				
FUG2300	300 Area Fugitives (5)	VCM	1.26		11,12,27,3,5	11,12,27,3,5	3,5
		NVVOG	0.01				

Permit Number: NSR 9347; PSDTX285M5					Issuance Date: 6-16-14		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
PL2WWSTRIP	Wastewater Stripper	VCM	0.14		21,22	22	3,5
PLBIO	Biological Treatment	VCM	0.15		22	22	3,5
TL2115A	VOC Storage Tank	VOC	0.01		6,30	6,29,30	
TK2115B	VOC Storage Tank	VOC	0.01		6,30	6,29,30	
TK2131	VOC Storage Tank	VOC	7.86		6,30	6,29,30	
TK2132	VOC Storage Tank	VOC	1.79		6,30	6,29,30	
TK2133	VOC Storage Tank	VOC	17.50		6,30	6,29,30	
<b>Plant 3</b>							
DR3401A	PVC Dryer	NVVOC	11.50		7	6,24,29,33	3,5
		PM/PM10/PM 2.5	2.05				
		VCM	6.90				
DR3401B	PVC Dryer	NVVOC	11.50		7,24	6,24,29,33	3,5
		PM/PM10/PM 2.5	2.05				
		VCM	6.90				

Permit Number: NSR 9347; PSDTX285M5				Issuance Date: 6-16-14			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
DR3401C	PVC Dryer	NVOC	13.13		7,24	6,24,29,33	3,5,24
		PM/PM10/PM 2.5	2.40				
		VCM	7.88				
TK3503A, TK3503B, TK3503C, TK3503D, TK3503E, TK3503F, TK3503G, TK3503H, TK3503I	Plant 3 Silos	PM/PM10/PM 2.5	1.44		6,7	6	
		VCM	0.90				
TK3901A	VCM Storage Sphere (5)	VCM	0.10			29	
TK3901B	VCM Storage Sphere (5)	VCM	0.10			29	
UN3701A	Boiler	CO	1.31		4,6,9,7,8,25	4,6,9,8	4
		NOX	1.10				
		PM/PM10/PM 2.5	0.63				
		SO2	1.04				
		VOC	0.39				
UN3701B	Boiler	CO	1.10		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		NOX	4.63				

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			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM/PM10/PM 2.5	0.63				
		SO2	1.04				
		VOC	0.39				
UN3701C	Boiler	CO	1.10		4,6,9,7,8,24,25	4,6,9,8,24	4,24
		NOX	4.63				
		PM/PM10/PM 2.5	0.63				
		SO2	1.04				
		VOC	0.39				
UN3703A	Incinerator	Cl2	0.02		7,8,16,18,24,26,27	6,8,9,16,18,24,26, 27	3,5,24
		CO	0.41				
		HCl	0.05				
		NOX	1.03				
		VCM	0.06				
		SO2	0.01				
		PM/PM10/PM 2.5	0.20				
		VOC	0.03				
UN3703B	Incinerator	Cl2	0.02		7,8,16, 18, 24,26,27	6,8,9,16, 18, 24,26,27	3,5,24
		CO	0.41				
		HCl	0.05				
		NOX	1.03				
		VCM	0.06				

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			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		SO2	0.01				
		PM/PM10/PM 2.5	0.20				
		VOC	0.03				
TK3132	VOC Storage Tank	VOC	2.68		6,30	6,29,30	
TK3133	VOC Storage Tank	VOC	16.00		6,30	6,29,30	
TK3134	VOC Storage Tank	VOC	0.98		6,30	6,29,30	
TK3510	PVC Storage Silo	PM/PM10/PM 2.5	0.18		6,7	6	
		VCM	0.01				
FUG3200	Fugitive (5)	NVVOC	0.18		11,12,27,3,5	11,12,27,3,5	3,5
		PM/PM10/PM 2.5	0.01				
		VCM	0.54				
FUG3300	Fugitive (5)	VCM	0.65		11,12,27,3,5	11,12,27,3,5	3,5
PL3WWSTRIP	Wastewater	VCM	0.14		21,22	22	3,5
PL3BIO	Lagoon	VCM	0.10		22	22	3,5
<b>Small Organic Liquid Storage Vessels</b>							
TK107	Tank TK107	VOC	0.20		6,30	6,29,30	
TK108	Tank TK108	VOC	0.20		6,30	6,29,30	
TK109	Tank TK109	VOC	0.44		6,30	6,29,30	
TK110	Tank TK110	VOC	0.05		6,30	6,29,30	
TK111	Tank TK111	VOC	0.05		6,30	6,29,30	

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			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
TK120	Tank TK120	VOC	0.27		6,30	6,29,30	
TK121	Tank TK121	VOC	0.62		6,30	6,29,30	
TK353	Tank TK353	VOC	0.13		6,30	6,29,30	
TK2119	Tank TK2119	VOC	0.66		6,30	6,29,30	
TK2120	Tank TK2120	VOC	0.66		6,30	6,29,30	
TK2121	Tank TK2121	VOC	0.26		6,30	6,29,30	
TK2122	Tank TK2122	VOC	0.26		6,30	6,29,30	
TK2125	Tank TK2125	VOC	0.46		6,30	6,29,30	
TK2126	Tank TK2126	VOC	0.46		6,30	6,29,30	
TK2130	Tank TK2130	VOC	0.02		6,30	6,29,30	
TK3115	Tank TK3115	VOC	0.24		6,30	6,29,30	
TK3116	Tank TK3116	VOC	0.01		6,30	6,29,30	
TK3117	Tank TK3117	VOC	0.09		6,30	6,29,30	
TK3118	Tank TK3118	VOC	0.01		6,30	6,29,30	
TK3119	Tank TK3119	VOC	0.64		6,30	6,29,30	
TK3120	Tank TK3120	VOC	0.64		6,30	6,29,30	
TK3121	Tank TK3121	VOC	0.57		6,30	6,29,30	
TK3122	Tank TK3122	VOC	0.57		6,30	6,29,30	
TK3124	Tank TK3124	VOC	0.72		6,30	6,29,30	
TK3125	Tank TK3125	VOC	0.72		6,30	6,29,30	
Emission Caps							



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			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
Total Site Emissions (all EPNs) for Routine Operations		CO		257.8			
		CL <sub>2</sub>		0.6			
		HCl		2.2			
		NOX		151.6			
		SO <sub>2</sub>		40.9			
		PM <sub>10</sub> /PM <sub>2.5</sub>		22.6			
		PM		140.6			
		VCM		65.1			
		VOC		151.0			
Sitewide Reactors, Refer to Footnote (6) for EPNs		VCM	7.99		19,29,30	19,20,29,30	3,5
Maintenance, Start-Up and Shutdown Emissions							

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			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
MSSSPHERE	VCM Storage Sphere MSS includes TK2901 A-D, TK3901 A-B and TK4901 A-F	VCM	21.81	0.26	30,31	29,30,33	3,5
MSSSOLV	Solvent Usage	VOC	1.32	1.37	31	29	3,5
MSSMISC	Turnarounds, Process Vessels, Fugitive Component Repair	VCM	12.40	0.22	30,31	29,30,33	3,5
<b>Footnotes</b>							
(1) Emission point identification - either specific equipment designation or emission point number from plot plan.							
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.							
(3) PM - Total particulate matter, suspended in the atmosphere							
PM10 - particulate matter equal to or less than 10 microns in diameter							
PM2.5 - particulate matter equal to or less than 2.5 microns in diameter							
NVVOC - non-vinyl chloride volatile organic compounds							
VCM - vinyl chloride monomer							
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1							
CO - carbon monoxide							
NOX -total oxides of nitrogen							
SO2 - sulfur dioxide							

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			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
HCl - hydrogen chloride							
CL2 – chlorine							
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.							
(5)Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.							
(6)The following EPNs are included:PL251A,PL251B, PL251C, PL251D, PL251E, PL251F, PL2251A, PL2251B, PL2251C, PL2251D, PL2261E, PL2251F, PL3251A, PL3251B, PL3251C, PL3251D, PL3251E, PL3251F.							